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(54) Title: TRANSPARENT MASTERBATCHES FOR THERMOPLASTICS

(57) Abstract: The invention relates to a transparent masterbatch for improving the surface properties of thermoplastics, said masterbatch containing from 10% to 60% by weight of polyhedral oligomeric silicon-oxygen cluster units in accordance with the formula $[(R_aX_bSiO_{1.5})_m(R_cX_dSiO)_n(R_eX_fSi_2O_{2.5})_o(R_gX_hSi_2O_2)_p]$ where: a, b, c = 0-1; d = 1-2; e, f, g = 0-3; h = 1-4; m+n+o+p ≥ 4; a+b = 1; c+d = 2; e+f = 3 and g+h = 4; R = hydrogen atom, alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, cycloalkynyl group or polymer unit, each substituted or unsubstituted, or further functionalized polyhedral oligomeric silicon-oxygen cluster units attached via a polymer unit or a bridging unit, X = oxy, hydroxy, alkoxy, carboxy, silyl, alkylsilyl, alkoxysilyl, siloxy, alkylsiloxy, alkoxysiloxy, silylalkyl, alkoxysilylalkyl, alkylsilylalkyl, halogen, epoxy, ester, fluoroalkyl, isocyanate, blocked isocyanate, acrylate, methacrylate, nitrile, amino, phosphine or polyether group or substituents of type R containing at least one such group of type X the substituents of type R being identical or different and the substituents of type X being identical or different and from 40% to 90% by weight of a thermoplastic carrier material, and to a transparent thermoplastic and to its production process.



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